b.) Amendments to the Claims

Please cancel claims 35-59 without prejudice or disclaimer of the subject matter thereof.

Please amend claims 1, 3, 4, 5, 14-16, 21, and 24-31 as follows:

Claim 1. (currently amended) A hyperspectral image calibration pad that has at least one surface exterior to ~~the~~ a body part with the following optical properties:

a. at least 95% opaque to electromagnetic radiation over a predetermined wavelength range of at least 50 nanometers;

b. ~~has~~ a predetermined reflectance of at least 1 percent to wavelengths of light over said wavelength range;

c. ~~has~~ a reflectance value for at least a first wavelength within said 50 nanometer wavelength range that varies less than 10% over a desirable image region; and

d. ~~has~~ a reflectance value for at least a second wavelength within said 50 nanometer wavelength range that varies less than 10% over a desirable image region.

Claim 2. (original) The calibration pad of claim 1 wherein the pad is form fitting to a sample to assume the shape of that sample.

Claim 3. (original) The calibration pad of claim 1 wherein the pad conforms to said at least one surface with minimal deformation that would effect imaging.

Claim 4. (currently amended) The calibration pad of claim 1 wherein the pad is form fitting to approximate ~~the~~ surface contours of ~~said~~ at least one surface to be imaged.

Claim 5. (currently amended) The calibration pad of claim 1 prepared by a process ~~of~~ comprising:

a. bathing the pad in a solution; and

b. packaging the pad from step a.

Claim 6. (original) The calibration pad of claim 1 comprising a hydrogel pack.

Claim 7. (original) The calibration pad of claim 1 wherein the at least 50 nanometer wavelength range is at least 100 nanometers.

Claim 8. (original) The calibration pad of claim 1 wherein the at least 50 nanometer wavelength range is at least 200 nanometers.

Claim 9. (original) The calibration pad of claim 1 wherein the at least 50 nanometer wavelength range is at least 400 nanometers.

Claim 10. (original) The calibration pad of claim 1 wherein the at least 50 nanometer wavelength range is at least 700 nanometers.

Claim 11. (original) The calibration pad of claim 1 wherein the predetermined reflectance is at least 5 percent.

Claim 12. (original) The calibration pad of claim 1 wherein the predetermined reflectance is at least 10 percent.

Claim 13. (original) The calibration pad of claim 1 wherein the predetermined reflectance is at least 25 percent.

Claim 14. (currently amended) The calibration pad of claim 1 wherein ~~the~~ reflectance properties of the exterior surface change as a function of temperature.

Claim 15. (currently amended) The calibration pad of claim 1 wherein ~~the~~ reflectance properties of the exterior surface change as a function of humidity.

Claim 16. (currently amended) The calibration pad of claim 1 wherein the pad is polarized to electromagnetic radiation over said predetermined ~~electromagnetic~~ wavelength range.

Claim 17. (original) The calibration pad of claim 1 wherein the pad becomes transparent or translucent upon contact with an aqueous solution.

Claim 18. (original) The calibration pad of claim 1 wherein the pad becomes opaque upon contact with an aqueous solution.

Claim 19. (original) The calibration pad of claim 1 further comprising one or more fiducial markers for spatial registration useful for imaging.

Claim 20. (original) The calibration pad of claim 1 further comprising one or more fiducial markers with a predetermined geometric relationship for spatial registration between image acquisitions.

Claim 21. (currently amended) The calibration pad of claim 1 further comprising one or more transferable fiducial marks that are transferred from the calibration pad onto ~~the~~ a sample where they remain following removal of the calibration pad.

Claim 22. (original) The calibration pad of claim 21 wherein the one or more transferable fiducial marks comprise an ink.

Claim 23. (original) The calibration pad of claim 22 wherein the ink is a non-indelible ink.

Claim 24. (currently amended) The calibration pad of claim 1 comprising one or more markings on the exterior surface, wherein at least one of the one or more markings has a defined size and shape that allows for the determination of at least one spatial dimension of an acquired hyperspectral image ~~images~~.

Claim 25. (currently amended) The calibration pad of claim 1 further comprising a removable interior section, which, upon removal provides optical access to ~~the~~ a sample surface.

Claim 26. (currently amended) The calibration pad of claim 1 further comprising a portion that can become transparent to ~~the~~ wavelengths of interest.

Claim 27. (currently amended) The calibration pad of claim 1 further comprising a portion that can become opaque to ~~the~~ wavelengths of interest.

Claim 28. (currently amended) The calibration pad of claim 1 wherein the ~~sterile~~ pad is a two dimensional grid of strips that provide geometric holes to image ~~the~~ a subject.

Claim 29. (currently amended) The calibration pad of claim ~~1~~ 28 wherein the geometric holes are circular or rectangular.

Claim 30. (currently amended) The calibration pad of claim ~~29~~ 24 wherein the one or more markings on the calibration pad provide a contour suitable for three dimensional stereoscopic referencing.

Claim 31. (currently amended) The calibration pad of claim 1 wherein the pad is formed on ~~the~~ a sample by spraying.

Claim 32. (original) The calibration pad of claim 31 wherein a sheet is placed over the sample before formation of the pad by spraying.

Claim 33. (original) The calibration pad of claim 1 wherein the pad is sterile.

Claim 34. (original) The calibration pad of claim 1 wherein the wavelength range is selected from the group consisting of 400 to 700 nanometers, 400 to 1100 nanometers, and 400 to 1800 nanometers.

Claims 35-59. (currently canceled).